

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF INFORMATION SCIENCE
END TERM EXAMINATION - JUN 2023**

Semester : Semester IV - 2021

Course Code : CSA2004

Course Name : Sem IV - CSA2004 - Computer Networks

Program : BSD

Date : 14-JUN-2023

Time : 1.00PM - 4.00PM

Max Marks : 100

Weightage : 50%

Instructions:

- (i) Read all questions carefully and answer accordingly.*
- (ii) Question paper consists of 3 parts.*
- (iii) Scientific and non-programmable calculator are permitted.*
- (iv) Do not write any information on the question paper other than Roll Number.*

PART A

ANSWER ALL THE QUESTIONS

(10 X 2 = 20M)

1. What is the Domain name system responsible for?
(CO3,CO4) [Knowledge]
2. Mention the types of errors.
(CO4,CO2) [Knowledge]
3. What is the difference between half-duplex and full-duplex transmission modes?
(CO1,CO3) [Knowledge]
4. List different classes of Class-full addressing with its range of address space.
(CO2,CO3) [Knowledge]
5. What is mean by error control?
(CO1,CO2) [Knowledge]
6. List out the differences between Static routing and Dynamic routing.
(CO3,CO1) [Knowledge]
7. What is the purpose of using TELNET Protocol?Explain.
(CO4,CO3) [Knowledge]
8. What is SMTP?
(CO4,CO2) [Knowledge]
9. Mention the lengths of IPv4 and IPv6.
(CO4,CO3) [Knowledge]
10. Define ICMP.
(CO3,CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(5 X 10 = 50M)

11. Write a Short Note on Connection oriented Protocol.
(CO1,CO4) [Comprehension]
12. List and explain the Error Detection Methods?
(CO3,CO2) [Comprehension]
13. Change the following IP addresses to binary notation
a. 180.10.3.2
b. 161.60.32.1
c. 11.3.2.0
d. 255.245.60.10
e. 100.12.10.5
(CO3,CO2) [Comprehension]
14. Explain Internet Protocol Version 4 Header format.
(CO3,CO4) [Comprehension]
15. Explain the following with suitable example.
a)LAN
b)MAN
c)WAN
(CO1,CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 15 = 30M)

16. Explain the following with suitable diagrams.
a)Domain Name Space
b)Domain Name Server
17. Write a short note on the following protocols:
a)TELNET
b)FTP
c)HTTP
(CO3,CO4) [Application]
- (CO2,CO4) [Application]